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UTCS ComputerNews

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Microcomputer News

UTCS now offers the **Polaroid Palette** as a slide production service in the Microcomputer Lab. The Palette allows you to take an image from a PC's monitor and quickly produce a 35mm slide or colour print. There will be *no processing charge* for this service; users are expected to bring their own film, however. Minor charges for instant prints on Lab film and for slide jackets will be incurred. Slide film can now be purchased at the U of T Computer Shop in the Koffler Centre.

Chris Handley joined the UTCS Microcomputer Support Group in October. Chris worked for several years as instructor and resident micro consultant for the Department of Psychology. His wide range of expertise, knowledge of campus dynamics, and communication skills should benefit many users. Chris and the rest of the Micro Support Group can be reached at 978-8701.

The **UTCS Education Facility** now has ten IBM PC-XTs, without hard disks; some have colour monitors, others enhanced colour displays. In the near future all ten will be networked to an IBM PC-AT, with two 30M drives, using IBM's Token Ring Network, and Novell Netware software. The Facility is available to instructors for use with academic courses/seminars. For more information, see the next article.

We recently received 60 Macintosh disks from the Apple University Consortium, copied from presentations made at the **Apple International University Consortium Conference** held at Cambridge University in March. Although no written documentation accompanied the disks, most have documentation files on disk. A variety of software is available, including disks on: *Sign Language* (Hamburg, Germany), *MacTex 1.0* (Switzerland), *Braille Fonts* and *TEX Preview* (The Netherlands), *SocStat 1.4* (Dartmouth, USA), *Filevision Files* and *Anatomy* (Mississippi). There are also a number of disks from user groups in Texas and Australia, among others. If you would like to peruse these disks, please call us.

The latest issue of *Wheels for the Mind* (Summer 1986) is also available. It includes a comprehensive bibliography of books and magazine articles dealing with Macintosh software and hardware.

PC users: Are you looking for a way to **transfer files from 5.25-inch floppies to 3.5-inch diskettes**? It's easy if you have both kinds of drives on one machine, as we do in the Micro Lab. Those with the new IBM Convertible or Toshiba 1100 laptops find we provide the quickest way to transfer files. Please feel free to use the Lab for such transfers; there is no charge for this service. We only ask that you make an appointment, so that we can schedule our time and book the Lab machines.

IBM has recently introduced the **XT Model 286** microcomputer, which is like an AT in an XT box but a few thousand dollars less expensive. There are some differences, however. This XT uses an 80286 microprocessor running at 6MHz with no wait states; this should produce about the same speed as the Zenith AT. The XT 286 offers a 20M fixed disk (average access time is 85 milliseconds), a 1.2M high-density floppy drive, a 360K drive, and a 3.5-inch drive as options. The standard unit comes with the 1.2M floppy drive, a 20M fixed disk, parallel and serial ports, and 640K. It lists for $6495, compared to $9075 for the AT. IBM is apparently preparing the AT for entry into the 80386 market, probably early next year. While we have not tested an XT 286, it would seem a reasonable alternative to an AT, at least from a price/performance standpoint.

IBM also announced **Canadian French Keyboard Versions** for the IBM PC-XT, XT Model 286, and PC-AT. Software and

continued...

Microcomputer News continued

Micro-code support for the new keyboard is provided by L'Accent Release 1.1 from IBM. The keyboard features fully engraved Canadian French keytops and a 102-key enhanced IBM PC keyboard; it is accompanied by a Guide-to-Operations manual in French.

Ashton-Tate, the software developers famous for dBASE and Framework, have recently announced that they are dropping copy-protection schemes from all of their products. This is a major breakthrough for the antiprotectionist lobby, as Ashton-Tate is one of the biggest software companies around. If you bought dBASE III Plus 1.1 or Framework II v1.1 after July 5, 1986, you are entitled to a free upgrade. Those who purchased dBASE III Plus, its LAN Pack, and Framework II before that date can upgrade for US$45. Note that the number of users supported with dBASE III Plus LAN Pack has increased from three to five. For more information, see the August 25 issue of *InfoWorld.*

As mentioned in previous *ComputerNews* articles, we will soon have a site license for ProComm, a PC communications package currently available as a shareware product on the Bulletin Board System (BBS). ProComm supports the Kermit protocol, among others. It offers VT100 emulation and is packaged in a user-friendly, menu-driven environment. ProComm will be the resident communications package in the Education Facility. ProComm vendor documentation is available now on the BBS; the UTCS version will be available soon, from the BBS and the UTCS Information Office.

The Micro Lab now has both a Toshiba 3100 and, for a limited time, a Datavue 25 portable micro for evaluation and demonstration. The Toshiba 3100, available at the U of T Computer Shop, is an AT version of the Toshiba 1100 laptop, including a hard disk. The Datavue 25 is an alternative to the Toshiba 1100 and Zenith 171; it includes one 3.5-inch disk drive.

Paul Roth
PROTH at UTORONTO

Microcomputers for Courses in the Education Facility

As was announced in the July/August issue of *ComputerNews,* microcomputers are replacing the XT-100 terminals in the UTCS Education Facility. Ten IBM PC-XTs, with varying combinations of monitors and display adapters, will be connected by a network to an IBM PC-AT. (See the preceding article for more details.) The conversion is already underway and is expected to be complete by mid-October.

UTCS policy has always encouraged instructors of academic courses or seminars to book the Education Facility when it is not being used for UTCS short courses. This is done on a first come, first served basis. There is no fee. Courses may be scheduled in the evening, as long as the instructor accepts responsibility for keys and the activities of the students. When not in use for a course, the Education Facility serves as a public site for faculty, staff, and researchers. A class schedule is posted on the door each month.

Instructors who wish to take advantage of the new possibilities offered by the PCs should discuss their hardware and software requirements with Paul Roth of the Microcomputer Support Group at 978-8701.

For those wishing to access a UTCS mainframe computer, each PC will have an easy-to-use communications package called ProComm. UTCS will provide instructions on using ProComm and on the mapping of the PC keyboard to a terminal keyboard.

continued...

Education Facility continued

The Education Facility is located in the Koffler Centre, Room 308. To reserve it for a course or to inquire about scheduling, call Irene Rosiecki at 978-4565.

Martha Parrott
PARROTT at UTORONTO

Subscription Renewals

It is now time for *ComputerNews* readers to renew their subscriptions. Because all subscriptions run from January to January, even new users, who become subscribers automatically when they open their accounts, must renew at this time if they wish to continue receiving *ComputerNews.*

To renew, just fill out the *Annual ComputerNews Subscription Renewal Form* appearing at the back of this issue and the November/December issue. Any subscription not renewed by the beginning of January will be dropped.

Please remember that this policy helps us keep our mailing costs down and continue to provide the newsletter free of charge.

Martha Parrott
PARROTT at UTORONTO

Documentation for Cray Users

To supplement the manuals produced by the Cray Research, Incorporated (CRI), UTCS and the Centre for Large Scale Computation (CLSC)have prepared a number of local documents for Cray users. These provide information on opening accounts and using CLSC and UTCS facilities. The following is a list of documents, both local and vendor, that will help you get started on the Cray.

- *CLSC Guide to Accounting*

  This is the first document you will need; it tells you how to open an account on the Cray and on the front-end system of your choice.

- *CLSC Guide to Computing on the Cray*

  This is a tutorial-like introduction to submitting and monitoring jobs on the Cray. It describes using the "Cray station" commands that will be available on the front-end system and then presents two sample sessions putting what you have learned into practice. Because there are two front ends available, there are two versions of this document, one for VAX/VMS users and one for VM/CMS users.

- *CLSC Guide to VAX/VMS*

  Those new to VAX/VMS will find this helpful. It is in a tutorial format and offers basic information on file management, entering and editing text, and an assortment of useful features available in VAX/VMS.

- *IBM VM/SP: CMS Primer*

  This is recommended as the introductory text for those new to VM/CMS. In addition, the CMS-flavoured version of the *CLSC Guide to Computing on the Cray* contains an extra section about the local VM/CMS system. It provides enough information for anyone who plans to use VM/CMS *only* as a front end to the Cray.

- *VM Station Primer*

  This task-oriented manual is produced by CRI and modelled on IBM's *CMS Pri-*

continued...

Documentation for Cray Users continued

mer. It covers the use of the station commands in more detail than CLSC's guide.

All of these may be purchased at the UTCS Information Office, Room 206 in the Engineering Annex. A few copies of certain other CRI manuals are being stocked at the Information Office. They are the *COS Version 1 Reference Manual*, the *Fortran (CFT) Reference Manual*, the *CFT77 Reference Manual*, and the *Programmer's Library Reference Manual.* If you wish to order other manuals, you are welcome to do so through the Information Office.

Martha Parrott
PARROTT at UTORONTO

Introductory Cray Short Courses Scheduled

As part of the Facilities Management agreement between UTCS and the Centre for Large Scale Computation, UTCS has prepared and will present two noncredit short courses on using the CRAY X-MP. CRAY101 "Introductory COS and FORTRAN" and CRAY102 "Efficient Use of the System " will be offered during the month of October to introduce experienced FORTRAN users to running jobs on the CRAY X-MP. Each course consists of five two-hour segments and is scheduled in three different sets of time slots; each section is limited to ten participants. At present, there is no registration fee, but participants are required to preregister.

CRAY101 - Introductory COS and FORTRAN

Section 1
Date: October 6-7, 9-10, 14
Time: 2:00-4:00 p.m.

Section 2
Date: October 6-7, 9-10, 14
Time: 4:00-6:00 p.m.

Section 3
Date: October 20-24
Time: 1:30-3:30 p.m.

This hands-on course will focus on skills required to run jobs on the X-MP without using permanent mass storage on the X-MP. Topics include: front-end station usage, COS job control language, Cray datasets, features of the CFT and CFT77 FORTRAN compilers, and staging data from front-end computers.

Prerequisite: Good working knowledge of FORTRAN and of editing and file management on a front-end computer.

CRAY102 - Efficient Use of the System

Section 1
Date: October 20-24
Time: 9:30-11:30 a.m.

Section 2
Date: October 20-24
Time: 3:30-5:30 p.m.

Section 3
Date: October 27-31
Time: 9:00-11:00 a.m.

This hands-on course will introduce some of the skills required to make efficient use of the X-MP. Topics include: vectorization on the Cray, the use of system libraries, FORTRAN optimization techniques, how and when to use the solid-state storage device, and the use of magnetic tapes on the X-MP.

Prerequisite: CRAY101 or equivalent experience.

Course Registration

To register for either course, please call Irene Rosiecki at 978-4565. The specific

continued...

Introductory Cray Short Courses Scheduled continued

times for each section are listed above. Manuals related to the course material may be purchased at the UTCS Information Office, Room 206, Engineering Annex. These should be available by the first of October. Reference copies of the Cray manuals are also available in the UTCS Information Office. Please call Dale Wright at 978-4990 for information on manuals.

All courses will be held in the UTCS Education Facility, Room 308, Koffler Centre, 214 College St.

Irene Rosiecki
ROSIECKI at UTORONTO

VM/CMS Users Can Change Banner Header

VM/CMS users can now change the top line of the banner header on their printer output. This is the line Operations staff at UTCS-managed printer sites use to file the output.

To allow this feature, UTCS has modified the RSCS component of the VM/CMS system so that the DIST (distribution) attribute is used when the top line of the banner is being formulated. To change the DIST, you can use the ROUTE command. For example,

route printer dist alex

will result in a banner of "ALEX", and all your output will be filed under "A". The effect of ROUTE lasts until the end of the session or until the DIST is explicitly changed in a subsequent ROUTE command.

If you want to change your banner permanently, we recommend that you make the necessary change to the ROUTE command found in your PROFILE EXEC file. For example, putting

route prt dest central dist alex

in your PROFILE EXEC will set your destination to CENTRAL and your DIST to "ALEX" every time you log on to CMS.

Alex Nishri
ALEX at UTORONTO

Attractive New Rental Rates!

Several types of video and hardcopy terminals with accompanying acoustic modems are available for rental to UTCS users, at attractive new low rates.

For more details on our new rates, or to arrange a rental, please contact the Communications Assistant at 978-3787.

Louise Hunt
ctsadm@utcs

UTCS Noncredit Short Courses

A number of short courses are offered on the various products and services supported by UTCS and available on our systems. Enrollment in these courses is restricted to faculty, staff, and other users of our systems.

In November we will introduce the first of our projected microcomputer courses: WRDPERF101 - Introduction to WordPerfect and WRDPERF301 - Advanced WordPerfect Topics. Enrollment in these courses is restricted to faculty, graduate students, staff, and researchers.

A nonrefundable Administration Fee of $10 per course is payable by cash, cheque, or on a Customer Account Number (CAN). In addition, the CAN holder is responsible for any computer charges incurred during the hands-on courses.

Registration is required for short courses because of the limited seating capacity in the Education Facility, and the number of terminals available for our hands-on courses. Registration forms may be picked up in the Engineering Annex, 11 King's College Road, Room 207.

The following courses are scheduled for October and November:

FORT/CMS101 - Introduction to CMS for FORTRAN Users
Date: October 27-31, 1986
Time: 1:00 - 4:00 p.m.

JCL101 - IBM Job Control Language for Beginners
Date: October 6-10, 1986
Time: 1:00 - 2:00 p.m.

SAS/CMS101 - Introduction to SAS and CMS
Date: October 6-17, 1986
Time: 9:30 - 11:30 a.m.

WRDPERF101 - Introduction to WordPerfect
Date: November 3-7, 1986
Time: 9:00 - 12:00 noon (November 3)
9:00 - 11:00 a.m. (November 4-7)

WRDPERF301 - Advanced WordPerfect Topics
Date: November 10-14, 1986
Time: 9:00 - 11:00 a.m.

A list of all our short courses, along with a description of each, is available in the Information Office, Engineering Annex, Room 206.

Irene Rosiecki
ROSIECKI at UTORONTO

Hours of Service

Thanksgiving Day

	October 11 (Saturday)	October 12 (Sunday)	October 13 (Monday)
IBM MVS GPJS(Class B and E, Calcomp)	10:00-18:00	10:00-18:00	closed
IBM MVS GPJS(Class A, WYLBUR, APL, TSO)	10:00-18:00*	10:00-18:00*	unattended
IBM VM/CMS	10:00-18:00*	10:00-18:00*	unattended
GP UNIX	unattended	unattended	unattended
Normal hours of service for all systems will resume Tuesday, October 14, 1986.			

* *Running unattended outside these hours.*

In the event of any changes to the above schedules, a notice will appear in system messages one week prior to the holiday.

ANNUAL COMPUTERNEWS SUBSCRIPTION RENEWAL FORM

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If you wish to receive *COMPUTERNEWS* for another year, please fill out the form below and return it promptly. Otherwise, your subscription will expire after Issue #235, December 1986.

Name and ADDRESS in full
(or attach your mailing label, indicating any changes)

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If you can receive your copy through campus mail, please use your campus address.

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Return to:

COMPUTERNEWS
University of Toronto Computing Services
McLennan Physical Laboratories
Room 350
Toronto, Ontario
M5S 1A1

Change Committee

Changes to the IBM Academic MVS Machine Services

1. The 2501 card reader service was discontinued on September 2.
2. The machine-based rates were decreased by approximately 10% on September 2.

Changes to Academic VM/CMS Machine Services

1. VMACCOUNT was upgraded to Release 2 on August 7.
2. CMS Kermit was installed as NEW on August 1.
3. VMSECURE was installed on August 19 to replace DIRMAINT and associated UTCS-developed code.
4. Minitab Version 5.1 was installed as NEW for user test on August 29.
5. Installation of new ROUTE, LASER, and 87SET EXECs on CMS took place on September 2.
6. The machine-based rates were decreased by approximately 20% on September 2.

Changes to Other Systems and Services

1. GP UNIX rates were decreased on August 1.
2. File Transfer Service on the HUB VAX was terminated on August 18.

Beverly Scarborough
BEVS at UTORONTO

Personnel Changes

Christopher Handley from the Department of Psychology has joined the Microcomputer Support Group.

Marika Tamm from the Waterloo Cooperative Education Program has joined Publications.

Recent Acquisitions in the Computer Library

Balfour, Alexander and D.H. Marwick. *Programming in standard Fortran 77.* New York, North-Holland, 1979. 388 p.

Benson, Ian, ed. *Intelligent machinery: theory and practice.* Cambridge, University Press, 1986. 168 p.

Blakley, George Robert and D. Chaum, ed. *Advances in cryptology:* proceedings of CRYPTO 84. Berlin, Springer-Verlag, 1985. 491 p.

Businger, Arnold. *PORTAL language description.* Berlin, Springer-Verlag, 1985. 186 p.

Cognitive Science Society Conference, 8th, Amherst, Mass., Aug. 1986. *Proceedings.* Hillsdale, N.J., Lawrence Erlbaum Assoc., 1986.

Coleman, Thomas R. *Large sparse numerical optimization.* Berlin, Springer-Verlag, 1984. 105 p.

Constable, R.L., and C.D. Eichelaub. *An Introduction to the PL/CV2 programming logic.* Berlin, Springer-Verlag, 1982. 292 p.

Davenport, James Harold. *On the integration of algebraic functions.* Berlin, Springer-Verlag, 1981. 197 p.

European Conference on Artificial Intelligence, 7th, Brighton, England, July 1986. *Proceedings.*

Goldblatt, Robert. *Axiomatising the logic of computer programming.* Berlin, Springer-Verlag, 1982. 304 p.

Goos, G., et al. *DIANA: an intermediate language for ADA* (revised version), Berlin, Springer-Verlag, 1979. 133 p.

Harel, David. *First-order dynamic logic.* Berlin, Springer-Verlag, 1979. 133 p.

Hartmann, Alfred C. *A concurrent Pascal compiler for minicomputers.* Berlin, Springer-Verlag, 1977. 119 p.

Hoffmann, Christoph M. *Group-theoretical algorithms and graph isomorphism.* Berlin, Springer-Verlag, 1982. 311 p.

IBM Computer Science Symposium on Operating Systems Engineering, 14th, Amagi, Japan, Oct. 1980. *Operating systems engineering.* ed. by M. Maekawa and L.A. Belady. Berlin, Springer-Verlag, 1982. 465 p.

Kahn, Gilles, et al. *Semantics of data types.* Berlin, Springer-Verlag, 1984. 391 p.

Kastens, Uwe, et al. *GAG: a practical compiler generator.* Berlin, Springer-Verlag, 1982. 156 p.

Kunii, Tosiyasu L., ed. *VLSI engineering: beyond software engineering.* Berlin, Springer-Verlag, 1984. 308 p.

National Computer Conference. *Proceedings.* v.55. Reston, VA., AFIPS Press, 1986.

NYU Symposium on Data Base Design, New York. May 1978. *Data base design techniques I: requirements and logical structures.* ed. by S.B. Yao et al. Berlin, Springer-Verlag, 1982. 227 p.

Ronse, Christian. *Feedback shift registers.* Berlin, Springer-Verlag, 1984. 145 p.

Salton, Gerard and H.J. Schneider, eds. *Research and develoment in information retrieval.* Berlin, Springer-Verlag, 1983. 311 p.

Symposium on Data Base Engineering, Tokyo, Nov. 1979. *Data base design techniques II: physical structures and applications.* ed. by S.B. Yao and T.L. Kunii. 170 p.

Thayse, Andre. *Boolean calculus of differences.* Berlin, Springer-Verlag, 1981. 144 p.

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Computer Library continued

Tucker, Allen B. *Programming languages.* 2d ed. New York, McGraw-Hill, 1986. 590 p.

Uhl, Jurgen, et al. *An attribute grammar for the semantic analysis of ADA.* Berlin, Springer-Verlag, 1982. 511 p.

Wallis, Peter J.L., ed. *ADA software tools interfaces.* Berlin, Springer-Verlag, 1984. 163 p.

Zlatev, Zahari, et al. *Y12M: solution of large and sparse systems of linear algebraic equations.* Berlin, Springer-Verlag, 1981. 128 p.

Stephanie Johnston

Technical Reports Received in the Computer Library

University of Illinois

Michalski, R.S. et al. *The A015 inductive learning system: an overview and experiments.* 32 p. #1260.

Saylor, Paul E. and Smolarski, D.C., S.J. *Computing the roots of complex orthogonal and kernel polynomials.* 33p. #1290.

Shilling, J.J. *Automated reference librarians for program libraries and their interaction with language based editors.* 174 p. #1268.

University of Newcastle upon Tyne.

Randell, B., ed. *Network protocols:* proceedings of the joint IBM/University of Newcastle upon Tyne seminar, September 1986. 273 p.

Rutgers University

Imielinski, T. *Transforming logical rules by relational algebra.* 39 p. DCS-TR-180.

Kalantari, B. *Karmarkar's algorithm with improved steps.* 9 p. DCS-TR-80.

Nadel, Bernard A. *Theory-based search-order selection for constraint satisfaction problems.* 9 p. LCSR-TR-183.

Stanford University.
The Center for the Study of Language and Information.

Abusch, Dorit. *Verbs of change, causation, and time.* 17 p. CSLI-86-50.

Perry, John. *Language, mind, and information.* 19 p. CSLI-85-44.

Westerstahl, Dag. *Quantifiers in formal and natural languages.* 125 p. CSLI-86-55.

Stephanie Johnston

Documents at UTCS

All vendor-produced documentation may be ordered through the UTCS Information Office, Room 206, Engineering Annex. UTCS documents and selected vendor documents are also stocked there for purchase. For more information on prices, call Dale Wright at 978-4990. Whenever feasible, documents are made available online, and users are encouraged to print their own copies. On the MVS and VM machines, special commands have been provided for this purpose.

To print online documents on:

IBM MVS
WYLBUR users type "do document?"
TSO users type "help document"
APL users type ")LOAD 1 UTCSGUIDE<RETURN>HELP"

IBM VM/CMS
type "help document"

GP UNIX
use *ipr* command

See examples at the end of next page.

UTCS Documents in hardcopy

Previously announced:
Academic's Guide to Microcomputer Systems
Character Sets for Highspeed Printing
UTCS GUIDE TO PRODUCTS AND SERVICES: Introduction
UTCS GUIDE TO PRODUCTS AND SERVICES: Basics
UTCS GUIDE TO PRODUCTS AND SERVICES: Accounting
UTCS Catalogue: Access, Part 1
UTCS Catalogue: Access, Part 2
UTCS Catalogue: IBM MVS Utilities
UTCS Catalogue: Numerical Products
UTCS Catalogue: Statistics Products
UTCS Catalogue: Text Products
UTCS Guide to Census Tapes
UTCS Guide to Tape Usage on VM/CMS
UTCS Guide to Kermit
UTCS Guide to Micro File Transfer Service
UTCS Guide to Text Processing on GP UNIX

UTCS Documents online	MVS MANUAL	CMS LISTING	GP UNIX	Forms Code
Previously announced:				
UTCS GUIDE TO PRODUCTS AND SERVICES: Introduction	INTRO		/usr/doc/utcs/intro	*
UTCS GUIDE TO PRODUCTS AND SERVICES: Basics	BASICS	BASICS	/usr/doc/utcs/basics	*
UTCS Catalogue: Access, Part 1	ACCESS1		/usr/doc/utcs/access1	*
UTCS Catalogue: Access, Part 2	ACCESS2		/usr/doc/utcs/access2	*
UTCS Catalogue: IBM MVS Utilities	MVSUTIL	MVSUTIL		*
Product-Function List	UTILLIST	UTILLIST		BXQD
UTCS Catalogue: Numerical Products	NUMCAT	NUMCAT		*
Product-Function List	NUMLIST	NUMLIST		BXQD
UTCS Catalogue: Statistics Products	STATCAT	STATCAT		*
Product-Function List	STATLIST	STATLIST		BXQD
UTCS Catalogue: Text Products	TEXTCAT	TEXTCAT	/usr/doc/utcs/textcat	*
UTCS Guide to APL	APLGD			*
UTCS Guide to APLXFR	APLXFR			*
UTCS Guide to BMDP	BMDP	BMDP		*
UTCS Guide to Census Tapes	CENSUS	CENSUS	/usr/doc/utcs/census	*
UTCS Guide to GP UNIX			/usr/doc/utcs/gpunix	*
UTCS Guide to GPJS	GPJSX	GPJSX	/usr/doc/utcs/gpjs	*
UTCS Guide to Highspeed Printing	PRINT	PRINT	/usr/doc/utcs/print	*
UTCS Guide to IBM MVS Online Storage	IBMDISK	IBMDISK		*
UTCS Guide to Kermit	KERMIT	KERMIT	/usr/doc/utcs/kermit	*
UTCS Guide to Micro File Transfer Service	MICROXFR	MICROXFR		*
UTCS Guide to Micro Laser Printing	MICRLASR	MICRLASR		*
UTCS Guide to SAS	SAS	SAS		*
UTCS Guide to SCRIBE		SCRIBE	/usr/doc/utcs/scribeguide	*
(For printing instructions, see page 1 of document)				

** Recommended forms code for the 8700 is YXLE unless otherwise stated.*
‡ Use the 87SET command. Type "help 87set".

Documents at UTCS continued

UTCS Documents online	MVS MANUAL	CMS LISTING	GP UNIX	Forms Code
UTCS Guide to Series/1 Terminal Use	SERIES	SERIES		*
3270 Emulation:				
Cybernex APL100 and Volker Craig VC404	CYBER	CYBER		*
DM1520	DM1520	DM1520		*
Hardcopy Terminal	HARDCOPY	HARDCOPY		*
IBM 3101	IBM3101	IBM3101		*
IBM PC Kermit	PCKERMIT	PCKERMIT		*
SOROC IQ	SOROC	SOROC		*
VT52	VT52	VT52		*
VT100	VT100	VT100		*
UTCS Guide to SPSS	SPSS	SPSS		*
UTCS Guide to SUBUTILS	SUBUTILS	SUBUTILS		*
UTCS Guide to Tape Usage on VM/CMS		CMSTAPE		*
UTCS Guide to Text Processing on GP UNIX			/usr/doc/utcs/text	*
UTCS Guide to TFW.MAK in SCRIBE		TFWMAK	/usr/doc/utcs/tfwguide	*
UTCS Guide to TSO	TSOGD			*
UTCS Guide to UTDSUTIL	UTDSUTIL	UTDSUTIL		*
UTCS Guide to VM/CMS	CMSGD	CMSGD		*
UTCS Guide to WYLBUR	WYLINTRO			*
UTCS Rate Schedule (Commercial)		RATESCOM		‡
UTCS Rate Schedule (External)		RATESEXT		‡
UTCS Rate Schedule (Internal)		RATESINT		‡
UTCS WYLBUR Tutorial	WYLTUTOR			*
Other Documentation online:				
Kermit				
Kermit Protocol Manual	KERMITPM	KERMITPM		YXOE
Kermit User Guide	KERMITUG	KERMITUG		YXOF
VM Tape Documents				
TapeMap User's Guide and Reference		TAPEMAP		*
VMTAPE Messages and Codes		VMTMSGS		YXOE
VMTAPE User's Guide		VMTUSER		YXOE
VMSECURE				
VMSECURE User's Guide		VMSECURE		YXOE
Waterloo SCRIPT				
Reference Manual	WSCRPTRF	WSCRPTRF		YXLC
User's Guide	WSCRPTUG	WSCRPTUG		YXLC
GML USER'S Guide	GMLUG	GMLUG		YXLC
OBS WYLBUR				
Messages and Codes	WYLMSGS			YXLD
Qwik Files	WYLQWIK			YXLD
Reference Summary	WYLREFCD			YXLG
Reference Manual	WYLREFMN			YXLD
7.0 Release Guide	WYLREL70			YXLC
User Guide	WYLUSER			YXLD

In these examples, the document to be printed is the UTCS Guide to Census Tapes (MANUAL/LISTING=CENSUS). <RETURN> means RETURN or ENTER key.

TSO: document census forms(yxle) <RETURN>

WYLBUR: do document <RETURN> and respond to the prompts.

CMS: document <RETURN> <RETURN>
laser census listing (forms yxle <RETURN>

GP UNIX: nohup ipr -8p -fyxle /usr/doc/utcs/census & <RETURN>

* *Recommended forms code for the 8700 is YXLE unless otherwise stated.*
‡ *Use the 87set command. Type "help 87set".*

Consulting and Enquiries

Applications Support & Advising Supervisor	Alex Nishri	KC308	978-7109
External Marketing Consultant	Ihor Prociuk	KC308	978-6875
Erindale College	Joe Lim	ER2035	828-5311
Scarborough College	William Barek	SC626	284-3173
Information Office	Dale Wright	EA206	978-4990
Account & Access Code Enquiries (U of T)	Agatha Stevens	MP337	978-8703
Account & Access Code Enquiries (External)	Sylvia May	MP337	978-7148
IBM PC Maintenance	Kam Mark	SF4306	978-5050
Tape Library (Academic Services)	Rosa Ciddio	MP368	978-7319
Tape Library (Administrative Services)	Miranda Fong	MP368	978-6693
Terminal Rentals	Louise Gauld	SF4306	978-3787
U of T Computer Library	Stephanie Johnston	EA206	978-2987
UTCS Noncredit Short Courses	Irene Rosiecki	EA207	978-4565

Consulting & Advising Services		300 Baud Interactive Services	978-6200
Phone:	978-HELP	1200 Baud Interactive Services	978-3959
CMS, TSO and GP UNIX userids:	ADVISOR	Datapac	4320 0056
CMS Userid for mail problems:	POSTMSTR	Telnet	0302043200056
Microcomputer Advising(MSG)	978-8701	Tymnet	<backspace> DPAC;302043200056
Numerical/Statistical Advising(SNAC)	978-STAT		
System Status Enquiries (GP UNIX)	978-4318		
System Status Enquiries (IBM)	978-7393		

UTCS Directory

Director	Dr. Warren Jackson	MP350	978-8948	WCJ at UTORONTO *
Associate Director	Eugene Siciunas	MP350	978-5058	EUGENE at UTORONTO *
Managers:				
Communications & Technical Support	Norman Housley	SF4306	978-4967	NORMAN at UTORONTO *
Internal Systems & Administration	Ron Vander Kraats	MP350	978-4428	RVK at UTORONTO *
Operations	Dr. Bob Chambers	MP350	978-7092	
Systems	Bill Lauriston	MP331	978-3579	BILL at UTORONTO *
User Interface	Don Gibson	KC308	978-7331	DON at UTORONTO *

Committees on Computing

Committee on Administrative Computing	Chair	Janice Oliver	978-4322	
UTCS Board	Chair	Prof. D.M. Nowlan	978-4984	NOWLAN at UTORONTO *
Supercomputer Users' Group at U of T	Chair	Prof. P.P. Kronberg	978-4971	

ER = Erindale
KC = Koffler Centre
SF = Sandford Fleming

SC = Scarborough
MP = McLennan Physical Labs

* NetNorth/BITNET/EARN

UTCS Terminal and Advising Sites

Names and Locations

- **Central Advising Office (CAO), 978-HELP**
- **Education Facility (Educ),** Koffler Centre, 214 College St., Room 308.
- **Engineering Annex (EA, CDF),**11 King's College Road, Rooms 103, 107, 107B, 201, 203.
- **Erindale College (Erin), 828-5339,** Mississauga Road, Erindale Campus, Rooms 2005, 2039, 2045
- **Robarts,** Robarts Library, 130 St. George St., Room 1061A
- **Scarborough College (Scar), 284-3122,** Military Trail, Scarborough Campus, Rooms S624, S625, S627, S628, S628A
- **Sidney Smith (Sidney),** 100 St. George St., Rooms 1071, 1073, 2105
- **St.Michael's College,** 121 St. Joseph St., Room 107
- **Trinity College,** 6 Hoskins Ave., Room 024
- **Victoria University,** 73 Queens Park Cres.

Sites	**Hours of Access**				**Restrictions***	**Advising**
	Mon-Thurs	**Fri**	**Sat**	**Sun**		
CAO	10:00-18:00	10:00-18:00	closed	closed	Research	978-HELP
CDF	24 hrs	24 hrs	24 hrs	24 hrs	Undergrads	No
EA	24 hrs	24 hrs	24 hrs	24 hrs	None	978-HELP for Research
Educ	9:00-18:00	9:00-18:00	closed	closed	Research**	978-HELP
Erin (2039)☐	9:00-17:00	9:00-17:00	12:00-16:00	12:00-16:00	Research	Rm 2005
(2045)	24 hrs	24 hrs	24 hrs	24 hrs	Undergrads	Rm 2005
(235†)	8:00-22:00	8:00-17:00	closed	closed	None	Rm 2046
Robarts	8:30-24:00	8:30-24:00	9:00-17:00	13:00-22:00	None	978-HELP for Research
Scar	24hrs°	24hrs°	24hrs°	24hrs°	Research	Rm S626
					Undergrads	Rm S626-A
Sidney	7:00-24:00	7:00-24:00	7:00-24:00	7:00-24:00	None	978-HELP for Research
St.Michael's	24 hrs	24 hrs	24 hrs	24 hrs	None	Arranged by College
Trinity	8:00-22:00	8:00-22:00	8:00-22:00	8:00-22:00	None	Arranged by College
Victoria	8:30-23:00	8:30-23:00	closed	closed	None	Arranged by College

* Research includes graduates, faculty, staff. ** May be unavailable due to UTCS courses. ☐ key access available.
° printers available some of the time. † access restricted to building hours.

Advising Hours

CAO	Monday through Friday, 10:00 - 18:00
Scarborough	Monday through Friday, 09:00 - 16:30, Wednesday and Friday 18:00 - 24:00, Saturday 10:00-17:00
Erin	Monday through Friday 09:00 - 22:00, Saturday & Sunday 12:00-16:00

Sites	**PACX**	**Network Terminal Server**	**CMS Terminals**	**Printers**	**DCS/Micros**
CDF	Y	N	N	Y	N
EA	N	Y	Y	Y	N
Educ	Y	N	N	N	N
Erin	Y	Y	N	Y	N
Robarts	Y	N	Y	Y	Y
Scar	Y	Y	N	Y	N
Sidney	N	Y	Y	Y	Y
St.Michael's	Y	N	N	Y	Y
Trinity	N	N	N	Y	Y
Victoria	Y	N	N	Y	Y

(Y=yes, N=no)

UTCS Services

The principle mandate of UTCS is to plan, implement, and operate computer facilities and "common-carrier" networks, and to plan and support divisional, departmental or project computer facilities as requested.

UTCS Centrally Owned and Managed

Systems

IBM MVS

- TS0, WYLBUR,APL, Batch
- 4381-R03 processor, 32 megabytes of memory
- MVS operating system

IBM VM/CMS

- General Purpose Timesharing; access to NetNorth, BITNET, and EARN networks; access to Cray X-MP
- 4381-P02 processor, 16 megabytes of memory
- CP operating system, VM/SP HPO R3.4
  CMS timesharing system, VM/SP Release 3
  RSCS spooling system, Release 3

GP UNIX
Technical Assistance: 978-8853

- General Purpose Timesharing under a commercial 4.2BSD UNIX license
- VAX-11/750, 5 megabytes of memory
- high-quality phototypesetting
- offers a sophisticated and powerful environment for text processing
- offers a sophisticated programming environment suitable for commercial software development or testing
- full access to USENET, an electronic technical information exchange facility
- offers excellent electronic mail facilities and ability to send or receive mail from most computer networks world wide, such as UUCPNET, ARPANET, NetNorth, BITNET, CSNET, CDNNET

Services

Communications & Technical Support
Primary Phones: 978-3787, 978-4967

- Communications Group provides communications systems, terminals, modems, data channels: consulting and installation.
- Field Service Group installs and maintains communications and computer systems, particularly IBM PCs and Micro Vaxes, on a contract basis or on a cost-per-call basis.
- provides consulting on computer systems technology and installs computer systems
- provides access between the IBM systems and machines using UNIX, VMS and other operating systems. Ethernet and Pronet technologies are used over various transmission media including optical fibre. More basic communications techniques are also used for moderate speed links.
- provides access to NetNorth (BITNET), the North American Universities Network; and USENET, the UNIX networking fraternity
- will provide a communications solution to department needs on a contractual basis.

User Interface Group
Primary Phone: 978-HELP

- provides advising, consulting and documentation on:
  - command languages
    including CMS, TS0, WYLBUR, JCL and UNIX
  - high level languages
    including FORTRAN, APL and PL/I
  - packages and libraries
    including SAS, SPSS-X, BMDP, IMSL and NAg
  - editors and formatters
    including XEDIT, TS0, WYLBUR, ed, SCRIBE, nroff/troff
- installs and maintains application packages
- provides courses on the more popular services
- provides general micro support
  - selection consulting for hardware and software
  - Micro Lab for evaluation of hardware and software
  - advice on University discounts
  - media conversion and data transfer
  - operates UTCS Microcomputer Bulletin Board System
  - offers Micro Laser Printing Service
  - offers 35mm slide production service using Polaroid Palette

Facilities Managed by UTCS

Administrative Computing

- administrative IMS/VS, DB/DC, DB2, Batch and TS0
- 4381-R03 processor, 32 megabytes of memory
- MVS operating system

UNIX SAS (Statistical Analysis Services)

- UNIX Statistical Analysis Service (Dept. of Statistics only)
- PDP-11/70, 4 megabytes of memory
- UNIX Seventh Edition
- SUN 3/180
- SUN 3/75
- SUN 2
- SUN 3.1 UNIX

Computer Disciplines Facility/VAX

VAX-11/780, 4 megabytes of memory
VAX-11/750, 4 megabytes of memory
VAX-11/750, 4 megabytes of memory

- Computer Science interactive access
- UNIX (Berkeley UNIX 4.2BSD)

Computer Disciplines Facility/PC

- 97 TI Professional Computers connected in a Local Area Network
- introductory Computer Science instruction
- MS-DOS with Turing environment

Scarborough College Systems

VAX-11/750, 5 megabytes of memory
VAX-11/750, 5 megabytes of memory

- instructional access using UNIX (Berkeley UNIX 4.2BSD)

Erindale College Systems

VAX 8200, 8 megabytes of memory

- instructional access using VMS
- research access

VAX-11/750, 5 megabytes of memory

- instructional access using UNIX (Berkeley UNIX 4.2BSD)

Institutional Relations System

VAX-11/750, 8 megabytes of memory

- database services to the owner departments using VMS

EPAS Facility

- 4361-5 processor, 12 megabytes of memory
- general VM/CMS services to the owner departments

Centre for Large Scale Computing (CLSC)

- Cray Research Inc. X-MP/22
- 2 processors, 2 megawords main memory
- solid state disk (SSD) with 16 megawords of storage
- COS 1.15 operating system
- VAX-11/750 + microVAX II providing VMS front end services
- VM front-end services provided by UTCS 4381-P02

Software List

Each programming language or package available at UTCS has a support level. In general, Class A Products receive full support, Class B limited support (as time and resources allow), Class C no active support. For complete details of UTCS product support policy, see the UTCS GUIDE TO PRODUCTS AND SERVICES:Introduction.

MVS SOFTWARE

MVS Package/ Compiler	**Support Level**	**Version**
Graphics Packages		
PLOTBASIC (FORTRAN)	A	
PLOTBASIC EXTENDED ROUTINES	A	
SAS/GRAPH	A	82.4; 5.08
SURFACE II	C	
ISPF/PDF	A	1
WYLBUR	A	7.0
Languages		
APL (Sharp)	A	May 83
ALGOLW (Stanford)	C	n/a
ASSEMBLER(F)	C	2.1
A.A.E.C. PASCAL	C	2.0
FORTRAN H EXT.	B	2.2.1
LISP	C	
MARKEXAM	C	
PL/C	C	
PL/I CHECKOUT COMPILER	B	1.3.0
PL/I OPT COMPILER	B	1.4.0; 1.5.0
SNOBOL 4	C	3.5
SPITBOL	C	
UTCS FORTRAN UTILITIES	B	
VS COBOL	C	2.4
VS FORTRAN	A	1.4.1
WATBOL	C	V3L2
WATFIV	B	
WPASCAL	C	(U of Waterloo/ West Valley Joint Community College Version)
Numerical Packages		
DYNAMO	B	4.07
EISPACK	C	4
FORMAC	C	
FUNPACK	C	
GPSS	A	Rel.1, Mod. Level 4
IMSL	A	9.2
LINPACK	C	
MINOS	C	4.0
MINPACK	C	1
MPSX	C	Rel. 1, Mod. Level 6
NAg	A	Mark 11
Statistical Packages		
BMD	C	
BMDP	A	Level 85
GENSTAT	C	4.04B
IMSL	A	9.2
NAg	A	Mark 11
NTSYS	C	Dec. 1982
SAS	A	82.4; 5.08; 5.15
SPSS	C	9.1
SPSSX	A	2.1
TSP	C	3.5
Text-Processing Packages		
COGS(Concordance Generating System)	B	3.1
KWIC	C	
OCP (Oxford Concordance Program)	C	1.4
Waterloo SCRIPT	B	85.1

MVS Package/ Compiler	**Support Level**	**Version**
Utilities		
DSMAP	A	
FILEBOL	C	
GRIPE	A	
IBM UTILITIES		
IEBGENER	A	
IEBCOPY	A	
IEHMOVE	A	
DFSORT	A	6.0
TAPEPRT	A	
TAPEXRAY	A	
TCOPY	A	
UTCS FORTRAN UTILITIES	B	

VM/CMS SOFTWARE

VM/CMS Package/ Compiler	**Support Level**	**Version**
Communications Packages		
FTS	A	
Kermit	A	
MICROLASER	A	
Graphics Packages		
SAS/GRAPH	A	82.3; 5.08
PLOTBASIC(FORTRAN)	C	
Languages		
ASSEMBLER(F)	C	
Concurrent Euclid	C	1.9
FORTUTILS	A	2.0
PL/I CHECKOUT COMPILER	B	1.3.0
PL/I OPT COMPILER	B	1.4.0; 1.5.1
REXX	A	
SNOBOL 4	C	3.5
TESTFORT	A	2.2
Turing	C	
VS FORTRAN	A	1.4.1
VS PASCAL	C	2.1; 2.2
Waterloo C	C	1.2
WATFIV	C	V2L0
WATFOR-77	A	1.3
Numerical Packages		
IMSL	A	9.2
Statistical Packages		
BMDP	A	Level 83
IMSL	A	9.2
Minitab	B	82.1; 5.1
SAS	A	82.3; 5.08
SPSSX	A	2.1
Text-Processing Packages		
SCRIBE	A	4(1400)-1
Waterloo SCRIPT	B	85.1
XEDIT	A	
8700 Pseudotypesetting	A	n/a
MICROLASER	A	
Utilities		
FORTUTILS	A	2.2
TESTFORT	A	2.2
TPRINT	C	

Software List continued

UNIX SOFTWARE

UNIX Package/ Compiler	Support Level	Version
Communications Packages		
kermit	B	4C(058)
macget/macput	C	
xmodem	C	
ftp, rsh, rlogin, telnet, rcp (Access via TCP/IP to most of the networked machines on all three campuses)	B	
rn/Pnews	B	
mail, mh, Mail		
rje	B	
Languages		
CC	B	Release E
cc	A	BSD std.
f77	C	BSD std.
efl	C	BSD std.
ratfor	C	BSD std.
ttc	C	
iconc	C	V5
liszt	C	8.36 Opus 79
pc	C	BSD std.
yacc	C	
awk	C	
adb,dbx	C	BSD std.
Text Processing Facilities		
ed	A	
vi	C	
jove	C	
spell	C	
diction/explain	C	
eqn	A	
tbl	A	
pic	C	
troff	A	
nroff	A	
scribe	A	4(1400)-1
Utilities		
crypt	A	BSD std.
compress	C	BSD std.
csh	B	BSD std.
diff	A	BSD std.
grep	A	BSD std.
ipr	B	
learn	C	BSD std.
patch	C	
sed	A	BSD std.
sort	A	BSD std.
sh	A	BSD std.
tar	A	BSD std.
uniq	A	BSD std.

MICROCOMPUTER SOFTWARE

The following are microcomputer software packages for which UTCS can provide either support or some information. As with mainframe products, micro packages receive full support (Class A), limited support (Class B), or no active support (Class C). The specific criteria differ from those for mainframe classes and are outlined in the Academic's Guide to Microcomputer Systems.

Package/ Compiler	Support Level	Version
Communications Packages		
Kermit (MS-DOS)	A	2.27d
Kermit (APPLE II)	A	
Kermit (CP/M)	C	
Kermit Macintosh	B	
PC TALK3	B	
PC PLOT III	A	
ProComm	A	
MacTerminal	C	
WYLBUR/PC	C	
Database Managers		
AskSam	C	2.2
Clipper	B	
DATAEASE	B	
dBASE II (CP/M)	B	
dBASE II (MS-DOS)	C	
dBASE III	A	1.1
dBIIICompiler	B	1.1
FoxBASE	C	2.14u
Notebook II	B	2.03
REFLEX	B	
ViewFinder III	B	
ZyINDEX	B	
Graphics Packages		
DR HALO	C	
Microsoft CHART (Macintosh)	C	
MacPaint	B	
Languages		
BASIC	A	
Microsoft FORTRAN	C	
TURBO Pascal	B	
WATFOR-77	A	
Operating Systems, Utilities		
APPLE Turnover	A	
CP/M	B	
FASTBACK	B	
PC-DOS	A	
Sidekick	B	
SuperKey	C	
TURBO Lighting	C	
XenoDisk	A	1.41
Spreadsheet Packages		
APPLEWORKS	C	
Lotus 1-2-3	B	
Multiplan (Macintosh)	C	
Statistical Packages		
MINITAB	C	
SAS/PC	A	6.01
SPSS/PC +	A	
Word-Processing Packages		
Gutenberg Senior	C	
FinalWord II	A	2.0
MacWrite	C	
Microsoft Word	B	2.0
Nota Bene	B	
T^3	B	
Volkswriter Scientific	C	
WordPerfect	A	4.1
WordStar	B	

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